

Estimated Emission Reductions for The Tri-Cities EAC 2007 -REVISED BY STEVE GOSSETT 11/20/03 & UT 11/22/03																										
Tri-Cities EAC																										
2000 Population	56742	56742	56742	53563	53563	53563	17499	17499	17499	153048	153048	153048	17667	17667	17667	17667	107198	107198	107198	107198	480223	Totals	Totals	VOC	CO	
Control Measure by Source Category				Carter, TN		Hawkins, TN		Johnson, TN		Sullivan, TN		Unicoi, TN		Washington, TN												
Area Sources				NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	NOx	VOC	CO	TPD	TPD	TPD		
Open Burning Ban -resid. Garbage2A.	0.049	0.06	0.7	0.06	0.07	0.86	0.03	0.037	0.44	0.076	0.092	1.1	0.022	0.026	0.031	0.063	0.077	0.89	0.30	0.36	4.02					
Open Burning Ban -yard waste2B.	0.0022	0.013	0.071	0.0028	0.0162	0.087	0.0014	0.0083	0.044	0.0034	0.0202	0.108	0.001	0.0058	0.031	0.029	0.0169	0.0906	0.01	0.08	0.43					
Open Burning Ban - Land clearing2C.	0.074	0.27	0.7	0.070	0.26	1.5	0.023	0.08	0.7	0.199	0.73	9.2	0.023	0.08	1.1	0.139	0.51	2.3	0.53	1.95	15.39					
Ozone Action Day (Reduce VMT 1%)	0.023	0.025	0.23	0.022	0.024	0.22	0.007	0.007	0.07	0.12	0.09	0.9	0.01	0.01	0.1	0.075	0.06	0.57	0.26	0.22	2.09					
Total Area Source Reductions	0.148	0.370	1.651	0.154	0.367	2.667	0.061	0.136	1.254	0.398	0.937	11.291	0.056	0.127	1.222	0.280	0.668	3.851	1.10	2.61	21.94					
Onroad Mobile																										
Inspection & Maintenance (like Nashville) VM.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Anti-tampering -all 5 EAC Counties	0.0041	0.0051	0.055	0.0039	0.0048	0.052	0	0	0	0.0112	0.0136	0.149	0.0013	0.0016	0.017	0.0078	0.0095	0.105	0.03	0.03	0.38					
Idling Restrictions - all 5 EAC Counties	0.0007	0.0007	0.005	0.0007	0.0007	0.005	0	0	0	0.0020	0.0020	0.013	0.0002	0.0002	0.002	0.0014	0.0014	0.009	0.01	0.01	0.03					
Smoking Vehicle Ban - all 5 EAC Counties	0.0041	0.0051	0.055	0.0039	0.0048	0.052	0	0	0	0.0112	0.0136	0.149	0.0013	0.0016	0.017	0.0078	0.0095	0.105	0.03	0.03	0.38					
Total Mobile Source Reductions	0.0090	0.0108	0.1158	0.0085	0.0102	0.1093	0.0000	0.0000	0.0000	0.5843	1.9292	12.1122	0.0028	0.0034	0.0360	0.3870	0.4605	7.7187	0.99	2.41	20.09					
Summary of Results for 2007																										
Total TPD Potential Reductions	0.16	0.38	1.77	0.16	0.38	2.78	0.06	0.14	1.25	0.98	2.87	23.40	0.06	0.13	1.26	0.67	1.13	11.57	2.09	5.02	42.0					
TPD County Em. Without Controls (from SAI)	3.68	10.78	30.75	52.31	15.84	43.18	1.71	2.79	14.59	55.19	45.48	163.19	2.72	2.61	13.46	14.24	21.41	87.82	129.9	98.9	353.0					
Percent Reduction in Emissions with Controls	4.3%	3.5%	5.7%	0.3%	2.4%	6.4%	3.6%	4.9%	8.6%	1.8%	6.3%	14.3%	2.2%	5.0%	9.3%	4.7%	5.3%	13.2%	1.6%	5.1%	11.9%					
TPD Em. Without Controls by Source Category:																										
Area Sources	0.16	6.65	1.8	0.17	5.29	2.92	0.38	1.36	1.41	1.23	21.2	15.7	0.09	1.79	1.6	0.4	12.67	4.27	2.4	49.0	27.7					
Motor Vehicle Sources	2.32	2.33	22.81	3.37	2.89	29.1	1.02	0.94	9.73	11.74	8.95	89.42	1.08	1.06	10.8	8.56	5.99	61.17	28.1	22.2	223.0					
Percent Reduction in Em. by Source Category																										
Area Sources	92.48%	5.57%	91.72%	90.84%	6.94%	91.34%	16.09%	10.02%	88.94%	32.39%	4.42%	71.92%	62.19%	7.07%	76.38%	70.06%	5.28%	90.18%	45.19%	5.32%	79.19%					
Motor Vehicle Sources	0.39%	0.47%	0.51%	0.25%	0.35%	0.38%	0.00%	0.00%	0.00%	4.98%	21.56%	13.55%	0.26%	0.32%	0.33%	4.52%	7.69%	12.62%	3.53%	10.89%	9.01%					
Non-Road Sources	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%					
Low-level Point	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%					
Elevated Point	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%					